

19980616.ba v02_n094.bam.980616

>From ???@??? Wed Jun 17 04:01:02 1998
Message-Id: <199806170458.XAA03552@sco.theporch.com>
Date: Tue, 16 Jun 1998 23:56:36 CDT
Subject: BOATANCHORS digest 2094

BOATANCHORS Digest 2094

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- 3) CPRC-26 Questions
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- 4) Alignment tool for SP-600 recommendations
by "N. West" <ninaw@u.washington.edu>
- 5) Autotune units
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- 6) Re: ::: QUESTION ABOUT THE OLD ALLIED RADIO :::
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- 14) RE: BA's in VHF contest
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by Sandy W5TVW <ebjr@worldnet.att.net>
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- 19) Re: Autotune units

- by William Donzelli <william@ans.net>
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by David Ross <ross@hypertools.com>
- 22) Re: Mystery Autotune unit
by "Lane C. Zeitler" <km3g@cts.com>
- 23) AC and 110 volts
by ail0@lehigh.edu (ARTHUR I. LARKY)
- 24) CE-100V Power Switch!
by John R Bookout K7JB <k7jb@uswest.net>
- 25) Re: CE-100V Power Switch!
by "Arden Allen" <gumbear@pacbell.net>
- 26) Mic. and VFO needed
by JIM_ALLEN@HP-Cupertino-om5.om.hp.com
- 27) Fw: Help on Radio Specialty Model 1144
by "Tracy Lane" <kc5rbq@oakharbor.net>
- 28) Re: HQ-129X osc.
by Henry van Cleef <vancleef@netcom.com>
- 29) Re: (Sencor) Tube Testing
by eaj@hiwaay.net

From: James.Reid@merisel.com
Mime-Version: 1.0
Date: Mon, 15 Jun 1998 17:07:53 -0700
Message-ID: <002637DA.1413@merisel.com>
Subject: SP-600's on the small screen
To: Old Tube Radios <boatanchors@theporch.com>
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit
Content-Description: cc:Mail note part

Greetings all,

I happened to be watching "The Price is Right" on the Game Show Network last evening. This episode(as most are) was from the early 60's. It's fun to look at all the BA appliances, etc. from that era. As the ending credits were rolling, Don Pardo popped in with an announcement about supporting Radio Free Europe. While he was speaking, they flashed up a slide taken from RFE's headquarters. There was at least 2 bays of nothing but SP-600's all rack mounted nicely on top of one another. Neat stuff. I wonder where they are all now.... Probably still in service. Ok, that's it. Back to work.

-Jim N6SVS
James.Reid@merisel.com

Message-Id: <199806160143.VAA26415@camel8.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 15 Jun 1998 21:39:06 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Bob Login <jlogin@gville.mindspring.com>
Subject: Unidentified Collins xmtr???? more info-HELP

Dear Collins Experts--Seems no one ever heard of this rig as no one responded with any info...So will try again--Thanks

Hi--Looking for help in identifying a xmtr. Looks like a bigger version of a 310 exciter. It covers 8-27MHz in three bands(8-12,12-18& 18-27) and has a 4D32 in the final. Tube line-up is vfo?, 6ak6,6ag7,6ag7,6v6--5R3,5U4,VR150. Has Collins wing emblem and sliderule dial with three bands. The bands lite up like the 32V series. The stages are perm tuned with a cam-driven slugs going into cans on their sides. The final has link coupling. The meter has Collins on it and is 200 mils its on right side of the rig. Fired it up and was able to get abt 40W out on each band. Unable to get at vfo pto tube because it is under a metal can that has 4 screws holding it down but its also GLUED in place--any ideas to get it off without damaging rig would be appreciated??? Anyone know this rig and possibly hve documentation or advice on how to tune it up as it shows abt 800volts on final(key up) so I think it shoud put out 100W like 32V?? 73's Bob, AA8A
PS--Also posted to Collins reflector

Message-ID: <3585D3F7.B890A75C@idirect.com>
Date: Mon, 15 Jun 1998 22:09:59 -0400
From: Jerry Proc <jproc@idirect.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: CPRC-26 Questions
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dear BA'ers,

Over the weekend, I inspected three CPRC26 handheld radios to see if there was any possibility of getting one of these brought back to life. I was especially interested in knowing if crystals were still

installed. To my surprise, one set had a 44.6 Mhz crystal. The other, had five crystals in the range of 45.7 to 46.7 Mhz. Now the plot thickens. The frequency range of the set is 47 to 55.4 Mhz. In Canadian Army issue, crystals in the range of 50 to 54 Mhz were the norm. Since these sets came from three different sources, I can't understand how they would be fitted with crystals below the frequency range of the set. Any guesses? What was the 44 -47 Mhz band used for in the 50's and 60's?

Has anyone successfully placed one of these in operation on 6 meters, primarily into a repeater? Is it worth the expense considering I will have to order a crystal? Does any have a dead BA-289/U battery that could be used as a connector donor?

BTW, in the 1950's and 60's all Royal Canadian Navy ships carried three CRPC-26 transceivers which were usually kept in the main radio office. (that's why I have three to play with). A communicator would carry one in a lifeboat and with landing or boarding parties. Other uses included short term communication between ships for such jobs as jack-stay transfers, underway fueling and shoots. It was an excellent means of communication between the bridge and the emergency conning position during times of crisis. In total, there were around 4,500 of these units built for NATO forces by Philips and Canadian Rogers. By 1969, the RCN declared this gear as obsolete, dangerous or unreliable depending on the source of information.

Yes, there were "green boxes" used aboard ships.

CRPC-26 Trivia:

Q - How do you distinguish an Canadian handset from a American handset?

A -The Canadian handset as a right angled connector; the American connector is straight out.

--

Regards,

Jerry Proc VE3FAB jproc@idirect.com

Web: www3.sympatico.ca/hrc/haida

HMCS HAIDA Naval Museum, Toronto Ontario

Date: Mon, 15 Jun 1998 19:46:45 -0700 (PDT)

From: "N. West" <ninaw@u.washington.edu>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Alignment tool for SP-600 recommendations

Message-ID: <Pine.A41.3.95b.980615194052.52846A-100000@dante09.u.washington.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Can anyone recommend a plastic alignment tool that is long enough and strong enough to tweak the RF section of a SP-600? A thin screwdriver worked fine on lowest band, but upper band L and C's were detuned with screwdriver inserted. Twisted off all my cheap alignment tools.

Fred Powell
c/o
ninaw@u.washington.edu

Message-Id: <3.0.5.32.19980615203747.00797cf0@mail.willapabay.org>
Date: Mon, 15 Jun 1998 20:37:47 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: David Ross <ross@hypertools.com>
Subject: Autotune units
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

BAfolks -

Is Collins the only manufacturer which build Autotune mechanisms?

I found what looks like a ten channel Autotune head at a local surplus emporium, but it doesn't resemble anything I've seen on Collins gear. Who else manufactured such a thing?

73
Dave Ross KA6EPI ross@hypertools.com

Message-Id: <3.0.1.32.19980615205304.00839bf0@marlin.nosc.mil>
Date: Mon, 15 Jun 1998 20:53:04 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Edward Zeranski <ejz@nosc.mil>
Subject: Re: ::: QUESTION ABOUT THE OLD ALLIED RADIO :::
Cc: boatanchors@theporch.com
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>>Hi gang,
>>
>>Was taking a peek at a 1958 Allied Radio catalog the other day and got to
>>wondering about their old location at 100 N. Western Avenue in Chicago.

From mid-late '50s to early-mid '60s I was a reverent Allied customer(also Lafayette and the cheepies). Living in the country and fixing old radios with shortwave bands, mail order was my only source for new parts. Crap! I still probably have the '58 Allied out in the garage, the "Command Sets" I got in '57-'58 for about \$2 is still here. My 12 year old self would get the old parlor sets from a junk yard then haul them home to be fixed then sold to my Dads friends as garage-weekend afternoon 'ballgame' radios for about \$5. Money for the kid which went to Allied and EICO test equipment kits. When I was in the Navy going to ETA school at Great Lakes in the early '60s I made a pilgrimage with a like minded friend to Allied at 100 N. Western Ave. Chicago, Ill. Nasty neighborhood even then but worth it.

Ed Zeranski This is a private opinion or statement.
home email: ezeran@cris.com

Date: Mon, 15 Jun 1998 23:31:05 -0500 (CDT)
Message-Id: <199806160431.XAA15367@dfw-ix16.ix.netcom.com>
From: n6nae@ix.netcom.com (Richard Humphrey)
Subject: RE: Buck/Boost
To: Old Tube Radios <boatanchors@theporch.com>

Hi again:

I repeat my challenge from last year. Can anybody provide me a technical reference that proves AC was ever distributed at 110V?

Magazine articles that say 'plug into 110' don't count. I mean a power company 'spec sheet' or power distribution engineering book, etc.

I can prove that the utility that lit up Sacramento in 1895 was 125 volts, 60 cycles, and radio equipment built to industry standards have been 117 to 125 volts since the early thirties.

The only place I can find 110 volts ever used was in Edison's DC system. And he did understand AC, he just didn't own the patents, so he wasn't going along with it. No patent, no income.

Anyway, nailing down this myth of the 110 AC outlet is a pet project of mine.

Yours tilting at windmills,
Richard
n6nae@ix.netcom.com

Message-Id: <199806160626.XAA05552@mail-gw2.pacbell.net>

From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Testing 6550 tubes
Date: Mon, 15 Jun 1998 23:24:35 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Boaters;

Been following the thread and was slightly astonished to read that the 6550 was not listed in the TV-7 data. Sure enough, not even in supplements up to '75. It ain't cuz it sucks too much filament amps though. 6550 swallows 1.8 amps. 6080, which the TV-7 tests handily, gobbles 2.5 amps. Sure if you leave it in for a while the line adjust pot gets toasty, but it wouldn't be the first TV-7 to get heat stroke I imagine. So anyone got another theory to run up the flag pole?

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

Message-Id: <3.0.5.32.199806160000048.00b1ca20@earthlink.net>
Date: Tue, 16 Jun 1998 00:00:48 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Jim Hill <jshillw6ivw@earthlink.net>
Subject: Late SP-600 Schematic, Wiring Diagram
Cc: hammarlund@qth.net
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks to all for the very helpful responses regarding accessing the RF deck of my SP-600-JX-25C for repairs, plus some trouble shooting suggestions.

Unfortunately, my manual doesn't cover this receiver accurately.

My service instructions handbook for the SP-600-JX-17, dated 30 June 1953, revised 1 February 1954 has an supplement covering the J25 (which means it will run on 25 Hz), but doesn't have an accurate "chassis connection" diagram, figure 14. For example, terminal strip E13, next to the filter capacitor shows three resistors and two capacitors, but my receiver has none. Since this terminal strip provides power to the RF section, I wonder if the parts have been moved to the RF deck, or are no longer used.

I'm looking for for a more recent version of figure 14, the main connection diagram (check terminal strip E13 for no parts), figure 15, which is the connection diagram for the RF deck and T1, plus the schematic. I just noticed I have part of another manual, which lists the main connection diagram as figure 7-2, but E13 is wired in the same manner.

Could someone send me copies of more current versions of these two wiring diagrams and the schematic? I'll pay expenses.
73's Jim

To: Old Tube Radios <boatanchors@theporch.com>
Date: Tue, 16 Jun 1998 02:40:22 CDT
Subject: FS-MILLEN FREQ STANDARD
Message-ID: <19980616.024023.7174.4.jackiv@juno.com>
From: jackiv@juno.com (John M Iverson)

I have A millen 90505 freq standard for \$45.00 plus ship or can have at the ARCI meet june 21 HOLIDAY Inn Elgin, IL
Also Halli SX-146 , DX-60B, HB-10B Rx, w/spkr
all above plus ship. jack
Jack Iverson K0EWU jackiv@juno.com

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Tue, 16 Jun 1998 06:38:05 -0400
From: polepeeg@aaa4rm.ba-watch.org (BA Marina Electrician)
Message-Id: <199806161038.GAA00537@aaa4rm.ba-watch.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: '58 STP-50 made contest

6M IS still about 25% Swan 250s & Heap\$h1t SB110s. You could say the band is the last redoubt of tubes.

I made dozens of 'community svc.' contacts with a nuvistored SB110 & a 6 ele. beam @ 60.' Not a band crusher with 100w up the pipe but broke every odd-grid pile-up save one. The sound of dueling 6146s was an attention-getter @ 50.140

Look fer ya on SMIRK

Marty

Message-ID: <35866029.A0A511AC@ix.netcom.com>
Date: Tue, 16 Jun 1998 08:08:09 -0400
From: K3DPJ <morry@ix.netcom.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>

Subject: 945 Tube
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

IN MY NEVER-ENDING QUEST TO CLEAN MY ATTIC I GOT INTO MY
TUBES.(PROBABLY THOUSANDS) LOOKING FOR 6AJ5'S-FOUND THREE.
ICEMAN ACROSS ANEW BOXED TUBE WITH THE MARKING 945. THIS IS A MINIATURE
WITH GOLD PLATED PINS. THE NUMBER IS LEGITIMATE. ANYONE KNOW WHAT IT IS.

BEST 73 MORRY K3DPJ

From: "Paul Bernhard Sr." <w2tu@email.msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Richard-110 volts
Date: Tue, 16 Jun 1998 09:55:01 -0400
Message-ID: <0b6841957131068UPIMSSMTPUSR06@email.msn.com>

Hi Richard;

I can't supply you with any written backup but here in the Buffalo NY
area we still have some 25 hz power. The plant I was in charge of as
electrical super had 25 hz floating around and the receptacle branch circuit
voltage was 110 AC. The switch to 60hz and the different distribution
voltages used probably caused the demise of 110. "Old" electricians still
refer to it as one-ten, hi. Our power co's distribute 115-230 and also
117-234 depending on time of day. Let me know if you get any concrete proof
of that. Very interesting.

Paul B. w2tu@msn.com

From: jmccarty@lucent.com (John J Mccarty)
Date: Tue, 16 Jun 1998 10:28:32 -0500
Message-Id: <199806161528.KAA11702@nwsdpa.ih.lucent.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: RE: BA's in VHF contest
Content-Type: text

I took a run at the VHF 'test with my Heathkit
HX-30 exciter and Ameco CN-50 into the R392 rx.
Its tough to break those pile-ups with 5 watts
into a full wave loop, but it can be done on
six. My HX-30 has developed a problem where it
doesn't drift, but instead bobbles down the band. Have

to look at that. Had a great time durning Sat night's opening to the East coast.

Meanwhile, three towns away, KG9KT was rolling them up with his Swan 250 into the 12 L beam. He accidentally "stepped" on me in a pile up. It's amazing how quick you can get the headphones off when you have too.

Where were all the A,M, guys on 50.4 ??

73

John McCarty
n9hrt

Message-ID: <358694DC.61116A06@ptld.uswest.net>
Date: Tue, 16 Jun 1998 08:53:00 -0700
From: John R Bookout K7JB <k7jb@uswest.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Testing 6550 tubes
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang:

FYI: The Svetlana company offers the SV 6550C as a replacement for all 6550's. Their specs show the SV 6550C filament drawing 1.6 Amps.

When I tested the 6550's which came out of the CE-100V, I had my eye on the meters LINE TEST mark when I plugged in the tube to be tested. I was surprised to note that the TV-7D meter did not appear to show the larger current drain as I expected! Also, the TV-7D's FUSE lamp was only slightly glowing so I don't think it will prove to be a problem for the tester. Especially if one does let the tube sit in the tester all day!

73's John

Arden Allen wrote:

> Boaters;
>
> Been following the thread and was slightly astonished to read that the 6550

> was not listed in the TV-7 data. Sure enough, not even in supplements up to
> '75. It ain't cuz it sucks too much filament amps though. 6550 swallows
> 1.8 amps. 6080, which the TV-7 tests handily, gobbles 2.5 amps. Sure if
> you leave it in for a while the line adjust pot gets toasty, but it
> wouldn't be the first TV-7 to get heat stroke I imagine. So anyone got
> another theory to run up the flag pole?
>
> Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

--
73's

John R Bookout

Amateur Radio K7JB
E-Mail: k7jb@ptld.uswest.net
Packet: K7JB @ K7JB.nwor.or.usa.na
R-390A's:
EAC 1475 & 2689
IMPERIAL 2168

Submissions r-390@qth.net

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
To: Old Tube Radios <boatanchors@theporch.com>
From: Sandy W5TVW <ebjr@worldnet.att.net>
Subject: Re: Testing 6550 tubes
Message-Id: <19980616160537.UCUF2279@LOCALNAME>
Date: Tue, 16 Jun 1998 16:05:37 +0000

RE: 6550 thread.

Gee, guys. What's the fuss?

The 6550 belongs to the famous "6L6" family of beam power tetrodes!
Simply use the same test as the 6L6 on your TV-2, TV-7 and other "Hickok"
family tube testers. I would test a couple of new tubes if they are available
to establish a "standard" Gm reading for future reference.

2.5 amps. isn't gonna hurt the transformer supplying filament power.

Hope this helps out.

73,

Sandy W5TVW

Message-Id: <199806161615.LAA19684@jackatak.theporch.com>
From: listown@jackatak.theporch.com (Mail List Owner)
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ADMINISTRIVIA: Changing Email Addresses
Date: Tue, 16 Jun 98 11:15:01 CDT

Gang-

This periodic post is intended to help subscribers whose email address has changed, preventing posting or receipt of the list.

If you change ISP (InterNet Service Provider), simply send me an email advising the change, and I will do my best to implement the change quickly.

For those unfortunates, whose ISP has made a change without advising their customers of the potential impact of that change on subscribers to email lists like the boatanchors, where one must be a subscriber to post to the list, try to follow along...

Under some circumstances, the changes to your email address are "transparent" to you, but prevent posting. I get error notification for these kinds of problems, and I try to work them out. However, I may miss one, and on this end, the process is anything BUT automatic.

You have a bigger stick than I do. You and your ISP have the primary responsibility to repair the problems caused by the change at the ISP. I have zero leverage with your ISP, and you have great leverage.

Most ISP maintain a customer service department to help with problems like these. This should be your first line of support for email problems. I am happy to assist and consult, but try to understand that when your ISP makes a change to their email handler, and that change prevents you from posting to the boatanchors list, I can help, but resolving this problem is your responsibility, working with your ISP. I am but a volunteer, contributing my time to administer the list.

Thank you for your attention.

--

73

Jack, W4KH/Mobile - - - BoatAnchor Mailing List Archiver/Owner - - -
listown@jackatak.theporch.com - "Plus ca change, plus c'est la meme chose"

"Il n'y a que les idiots qui ne changent jamais d'idee"

Tue Jun 16 11:15:01 CDT 1998

Message-ID: <35865CBE.5F23@worldnet.att.net>
Date: Tue, 16 Jun 1998 11:53:34 +0000
From: Ed Guzick <guzick@worldnet.att.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: ::: QUESTION ABOUT THE OLD ALLIED RADIO :::
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi all,
Been following thread and I wonder if anyone remembers that another large electronics store was across the street from Allied. Also, Allied had a outlet store which I beleive was on Washington Blvd, I do remember getting some great deals out of that store. About 5 years ago was the last time I passed the site and the building was still there. Between 1949 and 1955 I drove pass every day.
Ed

Date: Tue, 16 Jun 1998 13:54:10 -0400 (EDT)
From: William Donzelli <william@ans.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Autotune units
Message-Id: <Pine.GS0.3.96.980616135239.29773D-1000000@titan.purch.ans.net>
Mime-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> Is Collins the only manufacturer which build Autotune mechanisms?

No, A.R.C. (the "commnad set people") built their own for the AN/ARC-39. I do not know how reliable it was, but it was quite fast. They had a name for it, but it escapes me.

William Donzelli
william@ans.net

Date: Tue, 16 Jun 1998 12:54:30 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: ::: QUESTION ABOUT THE OLD ALLIED RADIO :::
Message-ID: <Pine.ULT.3.96.980616125250.25915A-1000000@admin.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Tue, 16 Jun 1998, Ed Guzick wrote:

> Hi all,
> Been following thread and I wonder if anyone remembers that another
> large electronics store was across the street from Allied. Also,
> Allied had a outlet store which I beleive was on Washington Blvd

I believe the store across from Allied was Olson Electronics. Allied's warehouse was a great place to get discontinued, repaired, and other odd stuff at great prices.

"Nostalgia is a thing of the past"
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-5530

Message-Id: <3.0.5.32.19980616112623.007cf940@mail.willapabay.org>
Date: Tue, 16 Jun 1998 11:26:23 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: David Ross <ross@hypertools.com>
Subject: Mystery Autotune unit
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

BAfolks -

I'm told my orphan Autotune unit may have been built by A.R.C., the Command Set people, and may have been used in an ARC-39.

Anyone out there got an extra ARC-39 for sale or trade?

73 and thanks for the info
Dave Ross KA6EPI ross@hypertools.com

Message-ID: <003301bd9963\$cab65180\$59a0d8cc@km3g.cts.com>
From: "Lane C. Zeitler" <km3g@cts.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Mystery Autotune unit
Date: Tue, 16 Jun 1998 13:17:29 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Dave and the Group,
Greeting de San Diego. I have a URA-38 completely remote antenna coupler.
Not sure who the manufacture was but it is built like the USS New Jersey and

is rated at 1 KW AM 2-30 mhz continuous!!!! I do not think it was Collins but I could be wrong.

Lane

KM3G

San Diego

-----Original Message-----

From: David Ross <ross@hypertools.com>

To: Old Tube Radios <boatanchors@theporch.com>

Date: Tuesday, June 16, 1998 12:07 PM

Subject: Mystery Autotune unit

>BAfolks -

>

> I'm told my orphan Autotune unit may have been built by A.R.C., the
>Command Set people, and may have been used in an ARC-39.

>

> Anyone out there got an extra ARC-39 for sale or trade?

>

>73 and thanks for the info

>Dave Ross KA6EPI ross@hypertools.com

>

>

Message-Id: <199806170112.VAA29736@ns1-1.CC.Lehigh.EDU>

Date: Tue, 16 Jun 1998 21:12:22 EDT

From: ail0@lehigh.edu (ARTHUR I. LARKY)

Subject: AC and 110 volts

To: Old Tube Radios <boatanchors@theporch.com>

I don't know if this will help, but I remember hearing that, for many years, the downtown sections of New York City ran AC part of the day and DC the other part.

Supposedly that's one of the reasons for making AC/DC radios. I was told that this was a carry-over from the Edison-Westinghouse wars. Apparently, they had both types of generators and swapped back and forth.

Then again, maybe all this is apochryphal.

Art K3HBA

>Hi again:

>

>I repeat my challenge from last year. Can anybody provide me a
>technical reference that proves AC was ever distributed at 110V?

>

>Magazine articles that say 'plug into 110' don't count. I mean a power
>company 'spec sheet' or power distribution engineering book, etc.
>
>I can prove that the utility that lit up Sacramento in 1895 was 125
>volts, 60 cycles, and radio equipment built to industry standards have
>been 117 to 125 volts since the early thirties.
>
>The only place I can find 110 volts ever used was in Edison's DC
>system. And he did understand AC, he just didn't own the patents, so
>he wasn't going along with it. No patent, no income.
>
>Anyway, nailing down this myth of the 110 AC outlet is a pet project of
>mine.
>
>Yours tilting at windmills,
>Richard
>n6nae@ix.netcom.com
>

Message-ID: <35872117.AE3A6391@ptld.uswest.net>
Date: Tue, 16 Jun 1998 18:51:19 -0700
From: John R Bookout K7JB <k7jb@uswest.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: CE-100V Power Switch!
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi Gang:

The latest in my restoration of the Central Electronics 100V is something I don't fully understand.

When I use the 100 V's ON/OFF power switch to power it down, the 8 Amp line fuse opens! This is something recent. I noticed that a large arc and slight pop was associated with turning the 100V power switch OFF.

I have used an Ohm meter to see if either side of the line showed a short before powering it up again, but all appeared OK. I loaded it up into a dummy load with no problem. I got on the air and worked some SSB without any problems. Then the second time of turning the 100V OFF via its power switch, it blew the line fuse again! After replacing the fuse I decided to connect the power cord through a bar outlet with separate switch with push button breaker. It can be powered UP or DOWN with the strip switch without blowing the line fuse.

So why does it take out the line fuse when using only the 100 V's power

switch?

Thanks for any insight.

--

73's John

John R Bookout

Amateur Radio K7JB
E-Mail: k7jb@ptld.uswest.net
Packet: K7JB @ K7JB.nwor.or.usa.na
R-390A's:
EAC 1475 & 2689
IMPERIAL 2168

Submissions r-390@qth.net

Message-Id: <199806170302.UAA11944@mail-gw2.pacbell.net>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: CE-100V Power Switch!
Date: Tue, 16 Jun 1998 20:04:11 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hi John;

> So why does it take out the line fuse when using only the 100 V's power
> switch?

Most likely the switch has a momentary short or defect which causes an arc
like carbonized insulation caused by previous arcs. Replace the switch.

Arden Allen KB6NAX Vallejo, CA gumbear@pacbell.net

From: JIM_ALLEN@HP-Cupertino-om5.om.hp.com
Date: Tue, 16 Jun 1998 20:19:27 -0700
Message-Id: <H000030e0b96a8a7@MHS>
Subject: Mic. and VFO needed
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Content-Type: text/plain; charset=US-ASCII; name="cc:Mail"
Content-Disposition: inline; filename="cc:Mail"

Content-Transfer-Encoding: 7bit

I need a mic, the MD-1B8, for the Yaesu FT-102. An external VFO would also be nice. Anyone out there that can assist?

Thanks,

Jim

KQ6LB

From: "Tracy Lane" <kc5rbq@oakharbor.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Fw: Help on Radio Specialty Model 1144
Date: Tue, 16 Jun 1998 02:08:23 -0700
Message-ID: <01bd9906\$519dee00\$LocalHost@kc5rbq>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>Greetings All,

>

> I just acquired as my very first boatanchor, a Radio Specialty Model
>1144. It's a two-piece unit, the radio is the top unit and it is attached
>to the p/s (the other piece) by two lunchbox style clips on either end.

The

>radio is labeled "Comm. Unit Assy 1144-50-2, Ser. #26. There is another
>label with "TX # 1144-5-1", and the p/s has "Type 1144-9-1, Ser. #110".

The

>year 1951 is stamped inside the radio. It has a cover over where the ch.
>select would be, so it's a single channel simplex on either VHF-Lo or Hi.

I

>haven't gotten deep into it yet to look for a crystal element, so I'm not
>sure about the freq.

> Could someone possibly direct me to a schematic and or provide more
>information, so I can get it working? I thank you for reading this, and
>thanks in advance for your replies (hopefully!).

>

>

73,

>

Tracy

>

>D. Tracy Lane KC5RBQ/7

>786 SE Ely St.

>Oak Harbor, WA 98277
>(360) 240-8582
>
>

From: Henry van Cleef <vancleef@netcom.com>
Message-Id: <199806170452.VAA23336@netcom10.netcom.com>
Subject: Re: HQ-129X osc.
To: Old Tube Radios <boatanchors@theporch.com>
Date: Tue, 16 Jun 1998 22:52:22 -0600 (MDT)
MIME-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: 7bit

Haven't had a chance to read my E-mail for a few days, and discovered that my nimble little fingers managed to get things totally backward when I discussed which side of the true frequency a receiver's tuning will respond to the same frequency as the image.

As a ferinstance, take a radio with a high oscillator and WWV at 10Mhz. When the radio is tuned "true," the LO is at 10.455 Mhz., giving 455 Khz. difference frequency to feed into the IF. The beat is between the WWV signal and the local oscillator signal.

Now, tune the radio down so that the local oscillator is at 9545 Khz. Once again, we have a 455 Khz. difference between the local oscillator and the WWV signal, so the receiver will respond if the WWV RF signal at 10 Mhz. is present at the mixer grid. The dial will read 9100 Khz, which is the frequency for which the local oscillator is on the high side.

The major issue is the filtering provided by the RF circuits ahead of the mixer. At 10 Mhz and above, in a typical HF receiver, the bandwidth of the LC circuits in the RF, which is a function of Q in the whole circuit, is fairly wide, since it is referenced to the primary frequency (10 Mhz) being tuned. This is why image rejection becomes poorer as the received frequency increases. Using a higher IF frequency places the image further away from the primary frequency, which allows the RF circuits to attenuate the RF input at the image position more effectively. However, there is a price paid for this, as the bandwidth of a much higher IF circuit is also much greater, and the receiver is less selective of close-by signals.

Both Millen and National Co. offered 1600 Khz. IF and BFO transformers in the same packages as the 455 Khz. offerings in their lines. I am not aware, offhand, that either manufacturer got OEM orders for the 1600 Khz. transformers, but they were steady low-volume sellers to the

do-it-yourself people. If used as the only IF, they gave receiver bandwidths into the audio on the order of 15 Khz. If set up as double conversion, with 1600 the first IF frequency and 455 as the second, you could get good image rejection at 40 and 20 meters and 5Khz or better selectivity bandwidth.

The reason for using hi oscillator with 455 Khz IF's in broadcast band receivers was that it is much easier to build a tracking oscillator with a 2:1 min-max ratio for the 3:1 ratio broadcast band rather than vice versa. Also, using lo oscillator on the broadcast band means that the oscillator actually operates at the IF frequency, which raises havoc with things.

One design question to face when choosing to use hi oscillator for lower frequency bands and lo oscillator for higher bands is the ability of the oscillator to operate at the needed frequencies. However, lo-hi at 30 Mhz. RF frequency means 29.5 or 30.5 Mhz. operation, so there isn't much reason to prefer one over the other at such frequencies, particularly when using US all-in-one "converter" designs such as 6SA7, which got hazy at around 23 Mhz.----or 6A7/6A8, which wouldn't oscillate at all at such frequency and give any conversion too. RCA developed the 6K8 to operate in a 6A8 circuit, and provide both oscillation and conversion up into the 10M region.

In European designs, use of outer grid oscillator injection was much more popular, and it has some real plusses. RCA did manage to come up with the 6J8-G (I've never seen either a metal or GT tubular bulb version listed), but the real winner in US tubes was Sylvania's use of the 6J8 internals in a loctal package as the 7J7, which really will work without a lot of jiggy-pokery down through 6 meters. Users of this tube were Philco and RME, but most everyone else seems to have followed the RCA circuits or gone to separate local oscillator 2-tube designs. The RCA 6L7, which is essentially a 6J8 without the oscillator triode, and thus needs a separate oscillator, got some play in the late thirties, but seems to have more-or-less vanished from HF designs after about 1940.

F. Langford Smith, in Radiotron Designer's Handbook 3rd edition, had an excellent and reasonably simple-to-follow treatise on various oscillator-mixer circuits and issues around the popular US tubes. The 4th edition replaced this with a reprint of a 1942 Proc IRE paper on mixers which is more comprehensive, but seems to me somewhat harder to extract "tips for design" for the amateur constructor.

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=====

Hank van Cleef

=====

From: eaj@hiwaay.net
Message-ID: <3587546C.1B14@hiwaay.net>
Date: Tue, 16 Jun 1998 22:30:20 -0700
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: boatanchors@theporch.com
Subject: Re: (Sencor) Tube Testing
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Walt et al: Gm stands for "grid mutual conductance", aka transconductance, which refers to the ratio of grid-voltage change to plate-current change, all else being the same. To quote from the (1966) RCA receiving tube manual: "a factor which combines in one term the amplification factor and the plate resistance, and is the quotient of the first divided by the second." which sounds more difficult to understand than it really is . . .

The value is expressed in "mho", which you may recognize is "ohm", spelled backwards! This is because it's an expression of conductance, rather than resistance. To wit: if a grid-voltage change of 0.5 volt produces a plate current change of 0.001 amp (1 ma), the mho is .001 divided by 0.5, or .002, which = 's 2000 umho (micro-mho), the usual mode of expression.

And who would like to amplify this? (pun intended)

BTW, my EICO 667 manual gives instructions on how to generate switch settings for any tube you can plug in. Do all tester manuals do this, or is it unusual?

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End of BOATANCHORS Digest 2094
